	Application No.	Applicant(s)	
	10/826,197	WOODS, PAUL R.	Mos
Notice of Allowability	Examiner	Art Unit	
	Khareem E. Almo	2816	
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commule GHTS. This application is su	this application. If not included nication will be mailed in due cou	rse. THIS
1. X This communication is responsive to papers filed 1/3/2006:			
2. The allowed claim(s) is/are <u>1,2,4-16 and 18-23</u> .			
Acknowledgment is made of a claim for foreign priority un a) □ All b) □ Some* c) □ None of the: 1. □ Certified copies of the priority documents have	been received.		
2. Certified copies of the priority documents have	• •		
3. Copies of the certified copies of the priority doc	cuments have been received	in this national stage application	trom the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a ENT of this application.	a reply complying with the require	ements
 A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give 			ICE OF
5. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.		
(a) including changes required by the Notice of Draftspers	on's Patent Drawing Review	(PTO-948) attached	
1) hereto or 2) to Paper No./Mail Date	*		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date			
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the	.84(c)) should be written on th he header according to 37 CFF	e drawings in the front (not the ba R 1.121(d).	ck) of
 DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT 			e the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of Inf	ormal Patent Application (PTO-1	52)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		ımmary (PTO-413), Mail Date	
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0		Amendment/Comment	
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛭 Examiner's	Statement of Reasons for Allowa	nce
	9. 🗌 Other		
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1. The following is an examiner's statement of reasons for allowance: With respect to claim 1 the prior art of record fails to disclose or suggest a clock doubler comprising timing circuitry for generating a first signal indicative of the time the output clock signal is low, and a second signal indicative of the time the output clock signal is high and a tap delay line connected to receive at least the first signal wherein the timing circuitry tracks the delay through the tap delay line and the first signal is indicative of the delay through the tap delay line.

With respect to claim 8 the prior art of record fails to disclose or suggest a clock doubler comprising a first tap delay line connected to receive the first output and having a first tap delay output; a second tap delay line connected to receive the second output and having a second tap delay output; and a comparator output indicative of whether the first comparator input is greater than, less than, or equal to the second comparator input; and whereby the time the second clock signal is low or high is variably controlled by the comparator output.

With respect to claim 15 the prior art of record fails to disclose or suggest a method of correcting the duty cycle of a clock doubler comprising generating a first signal indicative of the time the clock signal is low; generating a second signal indicative of the time the clock signal is high; and generating the first signal and generating the second signal generates a signal by tracking the delay through a tap delay line as recited in the claims.

With respect to claim 21 the prior art of record fails to disclose or suggest a clock doubler comprising a second tap delay line for delaying the second signal wherein

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the comparison circuitry uses a comparator, the comparator comprising a first input indicative of the delay through the first tap delay line; a second input indicative of the delay through he second tap delay line and outputs indicative of whether the first signal is greater than, less than, or equal to the second signal.

With respect to claim 22 the prior art of record fails to disclose or suggest a clock doubler comprising timing circuitry for generating a first signal indicative of the time the clock signal is low, and a second signal indicative of the time the clock signal is high as recited in the claims.

With respect to claim 23 the prior art of record fails to disclose or suggest a method of correcting the duty cycle of a clock doubler comprising generating a first signal indicative of the time the clock signal is low; generating a second signal indicative of the time the clock signal is high and comparing the first signal and the second signal wherein comparing the first signal and the second signal uses a comparator having a first input indicative of the delay through he tap delay line of the first signal; having a second input indicative of the delay through the tap delay line of the second signal; having outputs indicative of whether the first signal is greater than, less than, or equal to the second signal.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khareem E. Almo whose telephone number is (571) 272-5524. The examiner can normally be reached on Mon-Fri (8:30-5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tim Callahan can be reached on (571) 272-1740. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

KEA

1/12/2006

Kenneth B. Wells Primary Examiner Page 4